

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 03/16/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,957	08/01/2003	Mark C. Smith	44219	2530
7590 03/16/2006			EXAMINER	
Mark W. Hrozenchik			RODRIGUEZ, JOSEPH C	
Roylance, Abras	ms, Berdo & Goodman, I	L.L.P.		
Suite 600			ART UNIT	PAPER NUMBER
1300 19th Street, N.W.			3653	
Washington, D	C 20036			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/631,957	SMITH, MARK C.				
Office Action Summary	Examiner	Art Unit				
	Joseph C. Rodriguez	3653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>03 Ja</u> 2a)⊠ This action is FINAL. 2b)□ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ⊠ Claim(s) 17-21,23, 24, 26-31 is/are pending in 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 17-21,23, 24, 26-31 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on <u>01 August 2003</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Final Rejection

Applicant's arguments filed 1/3/06 have been fully considered but they are not persuasive for reasons detailed below.

The 35 U.S.C. 112 rejections are maintained or modified as follows:

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 recites the limitation "the discharge tube" (2nd In. from end). There is insufficient antecedent basis for this limitation in the claim.

The prior art rejections are maintained or modified as follows:

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 3653

Claims 17-19 and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Kennedy et al. ("Kennedy")(US 6,726,021).

Regarding claims 17-18, 26, 27, Kennedy (Fig. 1, 2) teaches a method for separating mixed particulate material into particles of at least two different specific gravities, comprising:

providing mixed particulate material to at least one mixed particulate material separating apparatus including a separating chamber (13) and an angle of entry connection, the angle of entry connection being angled upwardly with respect to the separating chamber (Fig. 1, near upwardly curved output end of 11 which creates an angle of entry connection of about 45 degrees as evidenced by particle discharge path and flow arrow);

creating a vacuum which provides suction to the separating chamber to draw mixed particulates into the separating chamber through the angle of entry connection so that mixed particular material has both upward and horizontal velocity components (col. 2, ln. 33-col. 4, ln. 54;

separating the mixed particulate material into a lower and a higher specific gravity by the vacuum pulling at least a portion of the first group of mixed particulate material up and out of the first mixed particulate material separating apparatus and allowing the second group of mixed particulate material to fall from the first mixed particulate material separating apparatus (Fig. 1).

Application/Control Number: 10/631,957

Art Unit: 3653

Regarding claim 19, the step of releasing the collected material at a predetermined time interval can be regarded as the step of releasing the openable door after the separation has been completed (col. 4, In. 19-33).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20-21, 23-24 and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kennedy et al. ("Kennedy")(US 6,726,021) in view of Colburn (US 3,843,060).

Kennedy as set forth above teaches all that is claimed except for expressly teaching moving the initially separated mixed particulate material to a second mixed particulate material separating apparatus through a discharge tube, wherein the material is separated into a lower specific and a higher specific gravity by the flow of air and transported away from said material separating apparatus. Colburn, however, teaches using two specific gravity separation steps in series to achieve a more thorough separation (Fig. 2, showing various separators in series connected with discharge tubes; col. 3). Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention of Kennedy with a further separation step as taught by Colburn to obtain a more thorough separation.

Art Unit: 3653

Response to Arguments

Applicant's arguments that the prior art fails to teach the claimed features are unpersuasive in view of the newly formulated prior art rejections as set forth above.

Consequently, the claims stand rejected.

Examiner has maintained the prior art rejections, statutory rejections and drawing objections as previously stated and as modified above. Applicant's amendment necessitated any new grounds of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any references not explicitly discussed above but made of record are considered relevant to the prosecution of the instant application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Joseph C Rodriguez** whose telephone number is **571-272-6942** (M-F, 9 am – 6 pm, EST).

The Official fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

The examiner's UNOFFICIAL Personal fax number is 571-273-6942.

Further, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system.

Status information for published applications may be obtained from either Private PMR or Public PAIR. Status information for unpublished applications is available through Private PMR only.

For more information about the PAIR system, see

http://pair-direct.uspto.gov

Should you have questions on access to the Private PMR system, contact the Electronic Business Center (EBC) at 866-217-9197 (Toll Free).

Alternatively, inquiries of a general nature or relating to the status of this application or proceeding can also be directed to the **Receptionist** whose telephone number is **571-272-6584** or to the Supervisory Examiner, Kathy Matecki, **571-272-6951**.

Application/Control Number: 10/631,957

Art Unit: 3653

Page 7

Signed by Examiner Joseph Rodriguez

Jcr

March 14, 2006